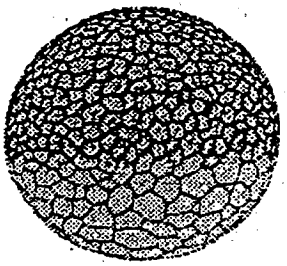

6th International Xenopus Conference

PROGRAM

Wednesday, August 21, 1996
Registration, 2:00 - 10:00 p.m., basement of Wind River Lodge
Dinner, 5:00 - 7:00 p.m.

7:30 p.m., Ruesch Auditorium
Welcome, J. Maller, Conference Chair

Keynote Address: Dr. John Gurdon, Wellcome/CRC Institute, Cambridge, England
The Past, Present, and Future of Xenopus as a Research Organism

8:30 -11:00 p.m. Reception in Wind River Lodge

Thursday, August 22, 1996

7:00 - 8:00 a.m. Breakfast
Platform Session I, Hempel Auditorium: **Maternal Gene Expression.**
Chair: Joel Richter

8:00 - 8:20 a.m. Joel Richter (Worcester Foundation, Shrewsbury, Massachusetts). **Cytoplasmic Polyadenylation.**

8:20 - 8;40 a.m. Scott Ballantyne (University of Wisconsin, Madison). **C-mos and Poly(A) Addition During Oocyte Maturation.**

8:40 - 9:00 a.m. Jean Gautier (Columbia University, New York). **Cell Cycle Regulation of DNA Replication.**

9:00 - 9:20 a.m. Marcel Méchali (Institute Jacques Monod, Paris). **Transitions in Gene Expression and DNA Replication during Early Development.**

9:20 - 9:40 a.m. Jill Sible (University of Colorado School of Medicine, Denver). **Analysis of the Transition from Maternal to Zygotic Gene Expression in the *Xenopus* Embryo.**

9:40 -10:00 a.m. Nick Osyenek (University of Saskatchewan, Canada). **Replication-Dependent Histone Expression in Xenopus Embryos.**

printed July 11, 1996

Source: https://www.industrydocuments.ucsf.edu/docs/qpbb0000

10:00 -10:20 a.m. Coffee Break

Platform Session II, Hempel Auditorium: **Chromatin Structure & Transgenesis.**
Chair: Alan Wolffe

10:20 -10:40 a.m. Alan Wolffe (National Institutes of Health, Bethesda, Maryland). **Global Controls of Transcription and Translation during Early Development.**

10:40 -11:00 a.m. Ralph Rupp (Frederich-Meischer Institute, Tüebingen, Germany). **A Direct Link between Chromatin and Competence.**

11:00 -11:20 a.m. Dana Carroll (University of Utah School of Medicine, Salt Lake City, Utah). **Homologous Recombination in Xenopus Oocytes.**

11:20 -11:40 a.m. Kristen Kroll (Harvard Medical School, Boston, Massachusetts). **Transgenic Xenopus Embryos from Sperm Nuclear Transplantation Reveal FGF Signaling Requirements During Gastrulation.**

11:40 -12:00 p.m. Enrique Amaya (Wellcome/CRC Institute, Cambridge, England **Discussion of Transgenic Xenopus Protocol.**

12:00 - 1:15 p.m. Lunch

Platform Session III, Hempel Auditorium: **Cytoskeleton**
Chair: Mike Klymkowsky

1:15 - 1:35 p.m. Mike Klymkowsky (University of Colorado, Boulder). **Plakoglobin Signaling and Stability.**

1:35 - 1:55 p.m. Michael Kühl (University of Ulm, Germany). **β-catenin and the Architectural Transcription of Factor LEF-1 Cooperate in Dorsoventral Axis Formation in *Xenopus laevis*.**

1:55 - 2:15 p.m. Thomas Lallier (University of Virginia, Charlottesville). **Integrin α6 Expression is Required for Early Neural Development.**

2:15 - 2:35 p.m. Carolyn Larabell (Lawrence Berkeley National Laboratory, Berkeley, California). **Microtubule-Mediated Organelle Transport to the Future Dorsal Side of Frog Eggs.**

2:35 - 2:55 p.m. Doris Wedlich (University of Ulm, Germany). **Interference of the Cadherin Cell Adhesion System and Dorsoventral Axis Formation in *Xenopus laevis*.**

2:55 - 3:15 p.m. Coffee break

Source: https://www.industrydocuments.ucsf.edu/docs/qpbb0000

3:15 - 3:35 p.m. Stephan Schneider (Max-Plank Institute, Tüebingen, Germany). **Translocation of β-catenin into Nuclei Demarcates the Dorsalizing Centers in Frog and Fish Embryos.**

3:35 - 3:55 p.m. François Fagotto (Memorial Sloan Kettering Cancer Center, New York). **Intracellular Signaling by β-catenin and its Role in Embryonic Patterning.**

3:55 - 4:15 p.m. Janet Heasman (University of Minnesota, Minneapolis). **The Roles of Maternal Catenins in Early Development.**

4:15 - 4:35 p.m. Jingdong Tian (State University of New York at Stony Brook). **Identification and Characterization of α Sperm Binding Protein in *Xenopus* Egg Vitellin Envelope.**

4:35 - 4:55 p.m. Lawrence Etkin (M.D. Anderson Cancer Center, Houston, Texas). **Pathways for the Localization of RNAs at the Vegetal Cortex of Xenopus Oocytes.**

4:55 - 5:15 p.m. Mary Lou King (University of Miami School of Medicine, Florida). **Two Mechanisms for Xcat-2 Localization to the Vegetal Cortex.**

5:30 - 7:00 p.m. Dinner

7:30 -10:00 p.m. Poster Session I, Wind River Lodge

Friday, August 23, 1996

7:00 - 8:00 a.m. Breakfast

Platform Session IV, Hempel Auditorium: **Mesoderm Induction**
Chair: Igor Dawid

8:00 - 8:20 a.m. Igor Dawid (National Institutes of Health, Bethesda, Maryland). **Function and Regulation of XLIM-1 During Axis Formation in the Amphibian Embryo.**

8:20 - 8:40 a.m. Eddy De Robertis (University of California, Los Angeles). **Signaling in the *Xenopus* Organizer by *Chordin* and *Cerberus*.**

8:40 - 9:00 a.m. Elizabeth Jones (Warwick University, Coventry, United Kingdom). **FGF Receptor Requirement for Responses to Inductive Signals from Notochord in *Xenopus*.**

9:00 - 9:20 a.m. Ken Cho (University of California, Irvine). **Intracellular Signaling Conversion Between BMP and Activin/BVg1.**

Source: https://www.industrydocuments.ucsf.edu/docs/qpbb0000

9:20 - 9:40 a.m. Malcolm Whitman (Harvard Medical School, Boston, Massachusetts). **Identification of a Transducer of Activin/TGF$^{\beta}$ Signals During Mesoderm Induction.**

9:40 -10:00 a.m. Coffee break

10:00 -10:20 a.m. Jonathan Slack (University of Bath, England). **The Role of FGFs in Early *Xenopus* Development.**

10:20 -10:40 a.m. Abraham Fainsod (Hebrew University, Jerusalem, Israel). **Patterning of Mesoderm and Ectoderm: The Antagonism Between Follistatin and BMP-4.**

10:40 -11:00 a.m. Julie Baker (University of California, Berkeley). **Expression Cloning of mMadr-2, a Novel Mesoderm Inducer Which Acts Downstream of Activin or Activin-Like Molecules.**

11:00 -11:20 a.m. Leslie Dale (University College, London, England). **BMP-1 and Mesodermal Patterning in *Xenopus* Embryos.**

11:20 -11:40 a.m. Tom Musci (University of California, San Francisco). **An RNA Regulatory Element Controls Inhibition, Activation, and Timing of FGF Receptor Translation during Xenopus Oocyte Maturation.**

11:40 -12:00 p.m. Jim Smith (National Institute for Medical Research, London, England). **Upstream and Downstream of Xbra.**

12:00 - 1:15 p.m. Lunch

Platform Session V, Hempel Auditorium: **Axis Formation**
Chair: David Kimelman

1:15 - 1:35 p.m. David Kimelman (University of Washington, Seattle). **Regulation of Dorsal Axis Formation in *Xenopus* by Xgsk-3 and β-catenin.**

1:35 - 1:55 p.m. Susan Godsave (Hubrecht Laboratory, Utrecht, The Netherlands). **FGFs and Retinoids in Anteroposterior Pattern Formation.**

1:55 - 2:15 p.m. Yanzen Cui (Oregon Health Sciences University, Portland). **Combinatorial Effect of Vg 1- and Wnt-Signals are Required for Dorsal Mesoderm and Endoderm Specification in *Xenopus*.**

2:15 - 2:35 p.m. Bryan Hyatt (University of Minnesota, Minneapolis). **Identification of Two Maternal Factors that Regulate Left-Right Axis Formation.**

Source: https://www.industrydocuments.ucsf.edu/docs/qpbb0000

2:35 - 2:55 p.m. Daniel Kessler (University of Pennsylvania School of Medicine, Philadelphia). **Dorsal Specification by Siamois, a Direct Target of Wnt Signaling.**

2:55 - 3:15 p.m. Coffee break

3:15 - 3:35 p.m. Anne Knecht (University of California, Berkeley). **Dorsal-Ventral Patterning of Noggin-Induced Neural Tissue.**

3:35 - 3:55 p.m. Patrick Lemaire (Campus de Luminy, Marseille, France). **Mode of Action of the Xenopus Nieuwkoop Centre Homeobox Gene Siamois.**

3:55 - 4:15 p.m. Bruce Blumberg (The Salk Institute, La Jolla, California). **Rar Signaling is Required for *Xenopus* A/P Neural Specification.**

4:15 - 4:35 p.m. Chris Kintner (The Salk Institute, La Jolla, California). **The Role of Notch in Somitogenesis in *Xenopus*.**

4:35 - 4:55 p.m. Sergei Sokol (Harvard Medical School, Boston, Massachusetts). **Role of Dishevelled and Fringe Products in Xenopus Development.**

4:55 - 5:30 p.m. Stefan Hoppler and Lynn McGrew (University of Washington, Seattle). **Xwnt-8 Signaling is Required at Gastrulation for XMyoD Expression.**

5:30 - 7:00 p.m. Dinner

7:30 -10:00 p.m. Poster Session II, Wind River Lodge

Saturday, August 24, 1996

7:00 - 8:00 a.m. Breakfast

Platform Session VI, Hempel Auditorium: **Neural Induction**
Chair: Robert Grainger

8:00 - 8:20 a.m. Robert Grainger (University of Virginia, Charlottesville). **Patterning of the Embryonic Nervous System in *Xenopus*.**

8:20 - 8:40 a.m. Angie Ribera (University of Colorado School of Medicine, Denver). **Several Types of Ion Channel Genes are Expressed Heterogeneously in a Neuronal Population that Behaves Homogeneously.**

8:40 - 9:00 a.m. Roberto Mayor (University of Chile, Santiago). **Induction of the Neural Crest in *Xenopus*.**

Source: https://www.industrydocuments.ucsf.edu/docs/qpbb0000

9:00 - 9:20 a.m. Horst Grunz (University of Essen, Germany). **Vertical vs. Planar Signals in Ectodermal Target Cells During the Early Steps of Neural Induction.**

9:20 - 9:40 a.m. Hazel Sive (Whitehead Institute for Biomedical Research, Cambridge, Massachusetts). **Anteroposterior Ectoderm Patterning in Xenopus.**

9:40 -10:00 a.m. Coffee break

Platform Session VII, Hempel Auditorium: **Cell Cycle Control**
Chair: Eisuke Nishida

10:00 -10:20 a.m. Eisuke Nishida (Kyoto University, Japan). **Signaling Pathways and Functions of *Xenopus* MAP Kinase Cascade.**

10:20 -10:40 a.m. Rebecca Hartley (University of Colorado School of Medicine, Denver). **A Role for Cyclin E1/Cdk2 in the Master Oscillator in *Xenopus* Embryos.**

10:40 -11:00 a.m. Alison Snape (National Institute for Medical Research, London, England). **Regulation of Embryonic Cell Division by a *Xenopus* Gastrula-Specific Protein Kinase.**

11:20 -11:40 a.m. Gert Jan Veenstra (Hubrecht Laboratory, Utrecht, The Netherlands). **Oct-1 Induces Apoptosis in Gastrulating *Xenopus* Embryos.**

11:40 -12:00 p.m. Karen Symes (Harvard Medical School, Boston, Massachusetts). **Embryonic Mesoderm Cells Spread in Response to PDGF and Signaling by PI-3 Kinase.**

12:00 - 1:15 p.m. Lunch

Platform Session VIII, Hempel Auditorium: **Transcriptional Regulation and Gene Expression**
Chair: Paul Krieg

1:15 - 1:35 p.m. Paul Krieg (University of Texas, Austin). **Role of Tinman-Related Homeobox Genes in Heart Development.**

1:35 - 1:55 p.m. Sheryl Sato (National Institutes of Health, Bethesda, Maryland) **XIPOU 2 Acts as a Potential Suppressor of the Head Organizer.**

1:55 - 2:15 p.m. Milan Jamrich (Federal Drug Administration, Rockville, Maryland). **Overexpression of a Novel Retinal Homeobox Gene Rx1 in *Xenopus* Embryos Results in the Formation of Ectopic Eye Tissue.**

Source: https://www.industrydocuments.ucsf.edu/docs/qpbb0000

2:15 - 2:35 p.m. Roger Patient (The Randall Institute, London, England). **GATA Factors: Their Roles in Hematopoiesis, Cardiogenesis, and Ectodermal Patterning.**

2:35 - 2:55 p.m. Gerhart Ryffel (University of Essen, Germany). **Opposing Gradients of the Maternal Transcription Factor HNF4 and of Activin α May Cooperate in the Transcriptional Activation of the HNF1α Gene.**

2:55 - 3:15 p.m. Coffee break

3:15 - 3:35 p.m. Christof Niehrs (Heidelberg, Germany). **Xvent Homeobox Genes are Part of the BMP-4 Signaling Pathway Controlling Dorsoventral Patterning of *Xenopus* Mesoderm.**

3:35 - 3:55 p.m. Thomas Pieler (George-August University, Göttingen, Germany). **Turning Activators into Repressors and Repressors into Activators - Zinc Finger Proteins in *Xenopus* Embryos.**

3:55 - 4:15 p.m. Daniel Weeks (University of Iowa, Iowa City). **The Effect of Oligonucleotide Charge on the Formation of Triplex by Overcoming Potassium Inhibition.**

4:15 - 4:35 p.m. Duri Rungger (University of Geneva, Switzerland). **Antisense Vectors in *Xenopus*.**

4:35 - 4:55 p.m. Gerald Thomsen (State University of New York at Stony Brook). **TGF-β Signal Transduction Factors Related to Mothers Against DPP Function in Dorso-Ventral Patterning in Xenopus.**

4:55 - 5:15 p.m. Hugh Woodland (Warwick University, Coventry, England). **NF-κB-Associated Proteins and FGF-Mediated Mesoderm Induction.**

6:30 p.m. Social Hour at the Holiday Inn in Estes Park (bus leaves at 6:20 p.m. and 6:50 p.m.).

7:30 p.m. Banquet at the Holiday Inn. Native American music by Red Tail Chasing Hawks.

10:30 p.m. Bus returns to YMCA of the Rockies

Sunday, August 25, 1996

7:00 - 8:00 a.m. Breakfast

Platform Session IX, Hempel Auditorium: **Signal Transduction in Development**
Chair: Jim Maller

Source: https://www.industrydocuments.ucsf.edu/docs/qpbb0000

8:00 - 8:20 a.m. Marc Moreau (Paul Sabatier University, Toulouse, France). **Signal Transduction During Neural Induction Involves a Ca^{2+}-Dependent Pathway.**

8:20 - 8:40 a.m. Tom Moss (Laval University, Quebec, Canada). **Catalytic and Non-Catalytic Forms of the Neurotrophic Receptor xTrb mRNA Expressed in a Pseudo-Segmental Manner with the Early *Xenopus* Central Nervous System.**

8:40 - 9:00 a.m. Amy Sater (University of Houston, Texas). **Cell Signaling and the Establishment of Anterior Neural Fate.**

9:00 - 9:20 a.m. Yi Rao (Washington University School of Medicine, St. Louis, Missouri). **Lunatic Fringe, a New Vertebrate Signaling Molecule.**

9:20 - 9:40 a.m. Michael Sargent (National Institutes for Medical Research, Mill Hill, England). **A Role for Translation Initiation Factor 4AII and Protein Kinase C in Development of the Neuroectoderm of *Xenopus*.**

9:40 -10:00 a.m. Akio Inoue (Osaka University, Japan). **Signal Transduction in the Meiotic Maturation of *Xenopus* Oocytes by Progesterone.**

10:00 -10:20 a.m. Coffee break

10:20 -10:40 a.m. Ira Daar (National Cancer Institute, Frederick, Maryland). **Xlerk, an Amphibian EPH Family Ligand Expressed in the Developing Nervous System.**

10:40 -11:00 a.m. Alana O'Reilly (Harvard University, Boston, Massachusetts). **Functional Domains of SHP2 Required for Early Xenopus Development.**

11:00 -11:20 a.m. Pierre Remy (Center for National Scientific Research, Strasbourg, France). **Role of Proto-Oncogenes of the ETS Family in *Xenopus* Embryonic Development.**

11:20 -11:40 a.m. Koichiro Shiokawa (University of Tokyo, Japan). **Specific Developmental Arrest In *Xenopus* Embryos Overexpressed with S-Adenosylmethionine Decarboxylase mRNA.**

11:40 -12:00 p.m. Tom Sargent (National Institutes of Health, Bethesda, Maryland). **Eph-Class Receptor Tyrosine Kinase in Development.**

Source: https://www.industrydocuments.ucsf.edu/docs/qpbb0000